

# Upgrading NMIS to 8.5.10G

## Overview

Upgrading NMIS to 8.5.10G is extremely simple: all you need to do is follow the guidance of the interactive installation script, which will perform all the necessary steps that are safely automatable. Since version 8.5.6G the installer also takes care of installing both operating system packages and CPAN perl packages that NMIS depends on.

Please note that the **installer script does not overwrite your existing models or existing configuration items** for safety reasons, so a (semi-manual) [model upgrade procedure](#) needs to be followed for activating the newest models.

For your convenience the installer offers to save a compressed backup snapshot of your NMIS configuration in `root`'s home directory, and a log of the actions that were performed is saved in `install.log` in the NMIS directory.

## Upgrading without any (or limited) Internet Access

Some of our customers are running Opmantek applications without direct access to the Internet, which can make installations and upgrades quite tedious when new pre-requisites are introduced. We have therefore prepared a document that describes all the [common options for working around this problem](#). The installer also mentions this page if it detects missing pre-requisites but no Internet access.

## RRD Migration

NMIS Versions 8.5.6G and newer recommend an updated and simplified directory structure for your RRD files, which is more robust and easier to deal with from an administrative perspective: all of a node's RRD database files are kept within the directory `<nmsidir>/database/nodes/<nodename>`. (In the past, a node's RRD files were spread across multiple directories; furthermore the directory names did include the node type, which can change under certain circumstances and which can cause all kinds of subtle inconsistencies.)

This new recommended structure is controlled by the settings in `models/Common-database.nmis`, and great care has been taken to make the migration from old to new layout safe and unproblematic.

NMIS 8.5.8G ships with the tool `admin/migrate_rrd_locations.pl` and the installer will offer to run it for you automatically. This tool takes care of moving any existing RRD files from old to new location, and merges a new `Common-database.nmis` with the other settings in your existing file (e.g. custom RRD period values). You can run the tool repeatedly; if there is nothing to migrate, then it'll show that and simply exit. There is a simulation mode for only seeing prospective changes without performing them, and the migration tool also creates a rollback script in `/tmp` which can be used to reverse a (partially or fully completed) RRD migration.

It is **highly recommended** that you let the installer perform the RRD migration on your behalf.

## General Upgrade Procedure

Once you've unpacked the NMIS tarball you will see `install.pl` in the NMIS source directory. Running `./install.pl -h` will show you what options it offers.

A simple invocation of `./install.pl` will prompt you for a few bits of necessary information and confirmations, after which the tool will backup your current NMIS installation and then perform the upgrade or installation steps.

Once the installer has finished its work you will likely need to review your config and model files and determine whether there are any customizations that you need to merge with newer files from the NMIS tarball. NMIS live configuration files are in `/usr/local/nmis8/conf`, the updated material from the release is in `/usr/local/nmis8/install`; for models please see the page on [Upgrading Models](#).

To simplify the comparison and merging process NMIS provides the helper program `admin/diffconfigs.pl`. As an example, to check your Config.nmis against the one included with a new NMIS release you would use the tool like this:

```
cd /usr/local/nmis8
./admin/diffconfigs.pl install/Config.nmis conf/Config.nmis
```

```
Comparing install/Config.nmis to conf/Config.nmis
Output format:
```

```
"Config Key Path:
```

```
-      Status in install/Config.nmis
+      Status in conf/Config.nmis"
```

```
/system/threshold_period-pkts_hc:
```

```
-      -15 minutes
+      -5 minutes
```

```
...possibly lots more changes...
```

```
Difference Summary:
```

```
  /authentication/auth_user_name_regex
  /system/threshold_period-interface
  /system/threshold_period-pkts
  /system/threshold_period-pkts_hc
```